



SFW

PATENTS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
DENISE ET AL.)
) Attorney Docket No. **MMI-0103**
Application No. **10/750,623**) (14972.105005)
)
Filed: **December 31, 2003**) Examiner: **David C. Thomas**
)
For: **METHODS AND SYSTEMS FOR**) Art Unit: **1637**
INFERRING BOVINE TRAITS)

TRANSMITTAL

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith are papers in the above-identified application.

- ☒ Revocation and Grant of Power of Attorney; Change of Correspondence Address; Change of Attorney Docket Number; and Statement Under 37 CFR 3.73(b)
☒ No fee is believed due. However, if deemed appropriate, the Commissioner is authorized to charge any fees to Deposit Account No. 11-0980.

Respectfully submitted,

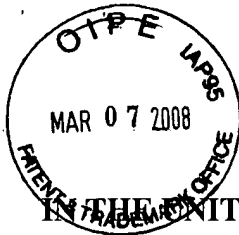
Shirley E. Brosmore

Shirley E. Brosmore, Patent Agent
Reg. No. 56,167

KING & SPALDING LLP
1180 Peachtree Street, N.E., 34th Floor
Atlanta, Georgia 30309-3521
404.572.4600 - Telephone
404.572.5134 - Facsimile

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on **March 4, 2008**.

Shirley E. Brosmore
Shirley E. Brosmore, Reg. No. 56,167



PATENTS

In re Application of:)
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DE NISE ET AL.)
) Attorney Docket No. **MMI-0103**
Application No. **10/750,623**) **(14972.105005)**
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Filed: **December 31, 2003**) Examiner: **David C. Thomas**
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For: **METHODS AND SYSTEMS FOR**) Art Unit: **1637**
INFERRING BOVINE TRAITS)

**REVOCATION AND GRANT OF POWER OF ATTORNEY;
CHANGE OF CORRESPONDENCE ADDRESS;
CHANGE OF ATTORNEY DOCKET NUMBER; AND
STATEMENT UNDER 37 CFR 3.73(b)**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Revocation/Grant of Power of Attorney

MetaMorphix, Inc. and Cargill, Incorporated, the owners by assignment of all right, title, and interest in and to the subject application, hereby revoke all powers of attorney heretofore granted for the above-identified application and hereby appoints the practitioners associated with **Customer Number 20786** as the attorneys of record herein, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith.

Change of Correspondence Address

Please direct all future correspondence in the application to James Dean Johnson, Ph.D., at the address associated with the customer number provided above.

Change of Attorney Docket Number

Please reference the Attorney Docket Number **MMI-0103 (14972.105005)** on all future correspondence in the application.

Statement Under 37 CFR 3.73(b)

Assignees, MetaMorphix, Inc., having a place of business at 8000 Virginia Manor Road, Suite 140, Beltsville, MD 20705, and Cargill, Incorporated, having a place of business at 15407 McGinty Road West, Wayzata, MN 55391-2399, certify that they are Co-Assignees of the entire right, title, and interest in the above-identified patent application by virtue of a chain of title from the respective inventors of the subject matter disclosed and claimed therein. The chain of title is as set forth below:

1. An assignment from the inventors, Sue K. DeNise, Richard Kerr, David Rosenfeld, Tom Holm, Stephen Bates and Dennis Fantin to MMI Genomics, Inc. The assignment was recorded in the United States Patent and Trademark Office on January 30, 2004, at Reel 014932, Frame 0340.

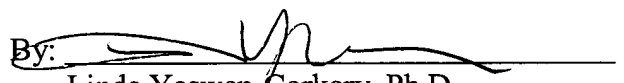
2. An assignment from MMI Genomics, Inc. to MetaMorphix, Inc. and Cargill, Incorporated, as Co-Assignees. The assignment was recorded in the United States Patent and Trademark Office on August 8, 2006, at Reel 018074, Frame 0021.

A copy of each assignment is attached.

The undersigned is empowered to sign this Revocation and Grant of Power of Attorney on behalf of the Assignee.

METAMORPHIX, INC.

Date: 2/25/08

By: 
Linda Yaswen-Corkery, Ph.D.
Chief Compliance Officer, VP – Strategic
Planning

CARGILL, INCORPORATED

Date: _____

By: _____
Title: _____

Statement Under 37 CFR 3.73(b)

Assignees, MetaMorphix, Inc., having a place of business at 8000 Virginia Manor Road, Suite 140, Beltsville, MD 20705, and Cargill, Incorporated, having a place of business at 15407 McGinty Road West, Wayzata, MN 55391-2399, certify that they are Co-Assignees of the entire right, title, and interest in the above-identified patent application by virtue of a chain of title from the respective inventors of the subject matter disclosed and claimed therein. The chain of title is as set forth below:

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A copy of each assignment is attached.

The undersigned is empowered to sign this Revocation and Grant of Power of Attorney on behalf of the Assignee.

METAMORPHIX, INC.

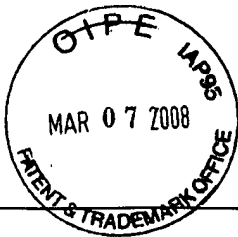
Date: _____

By: _____
Edwin C. Quattlebaum, President

CARGILL, INCORPORATED

Date: Feb 29, 2008

By: [Signature]
Title: V.P. and Chief Intellectual Property Counsel



PATENT DOCKETING

AUG 13 2004

RECEIVED

AUG 13 2004

GRAYCARY/T.DELANGEN
UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 03, 2004

PTAS

GRAY CARY WARE & FREIDENRICH LLP
LISA A. HAILE, J.D., PH.D.
4365 EXECUTIVE DRIVE, SUITE 1100
SAN DIEGO, CALIFORNIA 92121-2133



102659832A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 01/30/2004

REEL/FRAME: 014932/0340

NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: MM11100-1

ASSIGNOR:

DENISE, SUE K.

DOC DATE: 01/16/2004

ASSIGNOR:

KERR, RICHARD

DOC DATE: 01/15/2004

ASSIGNOR:

ROSENFELD, DAVID

DOC DATE: 01/15/2004

ASSIGNOR:

HOLM, TOM

DOC DATE: 01/19/2004

ASSIGNOR:

BATES, STEPHEN

DOC DATE: 01/12/2004

ASSIGNOR:

FANTIN, DENNIS

DOC DATE: 01/14/2004

014932/0340 PAGE 2

ASSIGNEE:

MMI GENOMICS, INC.
1756 PICASSO AVENUE
DAVIS, CALIFORNIA 95616

SERIAL NUMBER: 10750623

FILING DATE: 12/31/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS

ALLYSON PURNELL, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

02-03-2004

Docket No.: MMI1100-1

To the Honorable Commissioner for Patents a

Original documents or copy thereof.

1. Name of Conveying party(ies):

- a. Sue K. DeNise d. Tom Holm
b. Richard Kerr e. Stephen B. ...
c. David Rosenfeld f. Dennis Fann...

Additional name(s) of conveying party(ies)
attached? ___ Yes X No

3. Nature of conveyance:

- X Assignment ___ Merger
___ Security Agreement ___ Change of name
___ Other

Execution Date: a. January 16, 2004 d. January 19, 2004
b. January 15, 2004 e. January 12, 2004
c. January 15, 2004 f. January 14, 2004

2. Name and address of receiving Party(ies)

Name: MMI GENOMICS, INC.

Internal Address: _____

Street Address: 1756 Picasso AvenueCity: Davis State: CA Zip: 95616

Additional name(s) & address(es) attached?
___ Yes X No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

10/750,623

B. Patent No.(s)

Additional numbers attached? ___ Yes X No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Lisa A. Haile, J.D., Ph.D.GRAY CARY WARE & FREIDENRICH LLPStreet Address: 4365 Executive Drive, Suite 1100City: San Diego State: CA Zip: 92121-21336. Total number of Applications and patents involved: 1

7. Total fee (37 CFR 3.41)

\$ 40.00X Enclosed - Check No.: 552724X Authorized to charge any underpayment to
Deposit Account No. 50-1355.

DO NOT USE THIS SPACE

9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Lisa A. Haile, J.D., Ph.D.

Name of Person Signing

Registration No. 38,347

Lisa Haile
Signature

January 27, 2004

Date

02/02/2004 MGETACHE 00000105 10750623

01 FC:8021

Total number of pages including cover sheet, attachments, and document: 5

ASSIGNMENT

This assignment ("Assignment") is made by Sue K. DeNise of Davis, California, Richard Kerr of Davis, California, David Rosenfeld of Sacramento, California, Tom Holm of Salt Lake City Utah, Stephen Bates of Davis, California and Dennis Fantin of Danville, California (collectively, the "Assignors") to Assignee, **MMI GENOMICS, INC.** ("Assignee"), having a place of business at 1756 Picasso Avenue, Davis, California 95616.

Recitals

A. Each of the Assignors has invented a new and useful invention entitled **METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS** for which an application for United States Letters Patent Application was filed **December 31, 2003** in the United States Patent and Trademark Office.

B. Each of the Assignors authorizes and requests insertion of the serial number of the application when officially known:

The United States Application Serial No.: 10/750,623;

C. Each of the Assignors believes the Assignors to be the original, first and joint inventors of the invention disclosed and/or claimed in the application for Letters Patent.

D. The parties desire to have a recordable instrument assigning from the Assignors to the Assignee the entire rights, title and interest in and to the invention, the application and all Letters Patent in the United States and throughout the world that may be granted or issued for the invention or that derive a right of priority from the application (including, without limitation, all divisional, continuation, continuation-in-part and continued prosecution applications thereof, and all reissues and reexaminations thereof, and all foreign counterparts thereof) (collectively, the "Invention Patents").

Agreement

NOW, THEREFORE, in accordance with the obligations to assign the Invention Patents and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each of the Assignors agrees to the foregoing and as follows:

1. Each of the Assignors does and will sell, assign and transfer to Assignee, such Assignor's entire rights, title, and interest in and to each of the Invention Patents, including, without limitation, the rights to file foreign applications directly in the name of the Assignee and to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties, or otherwise.
2. Each of the Assignors agrees that, upon request and without further compensation, but at no expense to such Assignor, such Assignor and such Assignor's legal representatives and assigns will do all lawful acts, including the execution of papers and the giving of testimony, that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing each of the Invention Patents in the United States and throughout the world, and for perfecting, recording, or maintaining the title of Assignee, and Assignee's successors and assigns, in and to each of the Invention Patents in the United States and throughout the world. In the event that Assignee is unable for any reason to secure any of the Assignors' signatures to any document that may be necessary or desirable for obtaining, sustaining, reissuing, or enforcing each of the Invention Patents in the United States and throughout the world, or for perfecting, recording, or maintaining the title of Assignee, and Assignee's successors and assigns, in and to each of the Invention Patents in the United States and throughout the world, each such Assignor hereby irrevocably designates and appoints Assignee and Assignee's duly authorized officers and agents as such Assignor's agents and attorneys-in-fact to act for and on such Assignor's behalf and instead of such Assignor to execute such document, all with the same legal force and effect as if executed by such Assignor.

3. Each of the Assignors represents and warrants that such Assignor has not granted and will not grant to others either (1) any rights, title or interest in and to any of the Invention Patents, or (2) any rights inconsistent with the rights granted herein.

4. Each of the Assignors authorizes and requests the Assistant Commissioner for Patents of the United States and the various counterparts thereof throughout the world to issue and/or grant any Letters Patent granted for each of the Invention Patents to Assignee, its successors and assigns, as the assignee of the entire interest in such Invention Patents.

5. This Assignment constitutes the entire agreement with respect to its subject matter and supersedes all prior or contemporaneous oral or written agreements concerning such subject matter. No waiver, amendment, or modification of this Assignment shall be effective against the Assignee, unless in writing executed by a duly authorized representative of the Assignee. This Assignment shall be governed in all respects by the laws of the United States of America and by the laws of the state/province of California, as such laws are applied to agreements entered into and to be performed entirely within California between California residents. Each of the parties irrevocably consents to the exclusive personal jurisdiction of the federal and state courts located in California, as applicable, for any matter arising out of or relating to this Assignment, except that in any action seeking to enforce any order or any judgment of such federal or state courts located in California, such personal jurisdiction shall be nonexclusive. A breach of any of the promises or agreements contained herein will result in irreparable and continuing damage to Assignee for which there will be no adequate remedy at law, and Assignee shall be entitled to injunctive relief and/or a decree of specific performance, and such other relief as may be proper.

IN WITNESS WHEREOF, each of the Assignors has executed this Assignment on the date(s) provided below.

Assignor : Sue K. DeNise

Date: January 16, 2004

Signature: Sue K. DeNise

Assignor : Richard Kerr

Date: JANUARY 15, 2004

Signature: Richard Kerr

Assignor : David Rosenfeld

Date: January 15, 2004

Signature: David Rosenfeld

Assignor : Tom Holm

Date: January 19, 2004

Signature: Tom Holm

Assignor : Stephen Bates

Date: January 12th 2004

Signature: Stephen Bates

Assignor : Dennis Fantin

Date: JANUARY 14, 2004

Signature: Dennis Fantin

**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 09, 2006

PTAS

500136275A***500136275A***

LISA A. HAILE, J.D., PH.D.
4365 EXECUTIVE DRIVE, SUITE 1100
DLA PIPER RUDNICK GRAY CARY US LLP
SAN DIEGO, CA 92121-2133

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 08/08/2006

REEL/FRAME: 018074/0021

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
DOCKET NUMBER: MMI1100-1

ASSIGNOR:

MMI GENOMICS, INC.

DOC DATE: 10/27/2005

ASSIGNEE:

METAMORPHIX, INC.
8510-A CORRIDOR ROAD
SAVAGE, MARYLAND 20763

ASSIGNEE:

CARGILL, INCORPORATED
15407 MCGINTY ROAD WEST
MS/24
WAYZATA, MINNESOTA 55391

R010AFEB

018074/0021 PAGE 2

SERIAL NUMBER: 10750623

FILING DATE: 12/31/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS

ASSIGNMENT SERVICES BRANCH

PUBLIC RECORDS DIVISION

R010AFER

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

08/08/2006
500136275

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MMI Genomics, Inc.	10/27/2005
RECEIVING PARTY DATA	
Name:	MetaMorphix, Inc.
Street Address:	8510-A Corridor Road
City:	Savage
State/Country:	MARYLAND
Postal Code:	20763
Name:	Cargill, Incorporated
Street Address:	15407 McGinty Road West
Internal Address:	MS/24
City:	Wayzata
State/Country:	MINNESOTA
Postal Code:	55391
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	10750623
CORRESPONDENCE DATA	
Fax Number:	(858)677-1465
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	(858) 638-6756
Email:	aldon.griffis@dlapiper.com
Correspondent Name:	Lisa A. Haile, J.D., Ph.D.
Address Line 1:	4365 Executive Drive, Suite 1100
Address Line 2:	DLA Piper Rudnick Gray Cary US LLP
Address Line 4:	San Diego, CALIFORNIA 92121-2133

CH \$40.00 10750623

R010AFEB

ATTORNEY DOCKET NUMBER:	MMI1100-1
NAME OF SUBMITTER:	Lisa A. Haile, J.D., Ph.D.
Total Attachments: 2 source=MMI1100-1 Assignment (MMI Genomics, Inc. to Cargill, Inc. & Metamorphix, Inc.)#page1.tif source=MMI1100-1 Assignment (MMI Genomics, Inc. to Cargill, Inc. & Metamorphix, Inc.)#page2.tif	

WORLDWIDE PATENT ASSIGNMENT

WHEREAS, MMI GENOMICS, INC., a Delaware corporation and wholly-owned subsidiary of MetaMorphix, Inc., a Delaware corporation (hereinafter referred to as the "Assignor"), has an invention relating generally to genetic markers and more specifically to polymorphisms associated with bovine traits, which said Assignor has caused an application for United States Letters Patent to be prepared, said application having been filed in the United States Patent and Trademark Office on December 31, 2002 (PCT/US 2003/041766 and MMI Docket No. MMI 1100) and entitled "Compositions, Methods, and Systems for Inferring Bovine Traits" (hereinafter the "'041766 Application";

WHEREAS, CARGILL, INCORPORATED, a Delaware corporation (hereinafter referred to as a "Co-Assignee" or as "Cargill"), in accordance with and subject to a joint research agreement between the two Co-Assignees, has acquired a joint right, title, and interest in and to said applications, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefore, including any and all renewals, reissues, and prolongations thereof;

WHEREAS, METAMORPHIX, INC., a Delaware corporation ("MMI"), and Cargill incorporated, a Delaware corporation, as Co-Assignees hereunder, shall be co-owners of the Patent Application.

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration each paid by Cargill and MMI to Assignor and exchanged between them, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby assigns, sells, and transfers, and has assigned, sold, and transferred to Cargill and to MMI, as Co-Assignees, their respective successors and assigns, each a joint right, title, and interest for the United States in and to the invention, the '041766 Application, and any patents which may be granted therefor, including any and all divisions, continuations, in whole or in part, substitutions, renewals, reissues, reexaminations, extensions, any application to which the '041766 Application claims priority from, and all applications claiming priority therefrom; and Assignor authorizes and requests the Commissioner of Patents and Trademarks to issue all patents for the invention, or patents resulting therefrom, insofar as their interest is concerned, jointly to the Co-Assignees; to have, hold, exercise, and enjoy, with all the rights, powers, privileges, and advantages in anywise arising therefrom or appertaining thereto, for and during the term or terms of any and all such patents when granted, for the use and benefit of said Co-Assignees, and said Co-Assignees' respective successors and assigns, in as ample and beneficial a manner as Assignor might or could have held and enjoyed the same, if this assignment had not been made; however, subject to and governed by the terms of agreements between the Co-Assignees.

Assignor further hereby assigns, sells, and transfers, and has assigned, sold, and transferred to the Co-Assignees, their respective successors and assigns, the entire right, title, and interest in all countries of the world, in and to the invention and in and to the '041766 Application and all patents which may be granted therefor, and all national applications, regional applications, divisions, reissues, substitutions, continuations, in whole or in part, re-examinations, and extensions thereof, including the right to file applications and obtain patents for the invention in its own name, in all countries and including all rights of priority in all countries under the terms of any applicable international convention, insofar as its interest is concerned; and the Assignor hereby authorizes and requests the applicable patent office in each country of the world to issue all patents for the

invention, or patents resulting therefrom, insofar as its interest is concerned, jointly to the Co-Assignees, to have and to hold for the sole and exclusive use and benefit of the Co-Assignees, their respective successors and assigns, to the full end of the term or terms for which any and all of such patents for the invention may issue, to the same extent as the Assignor would hold and enjoy if this Assignment had not been made; however, subject to and governed by the terms of agreements between the Co-Assignees.

The Assignor further covenants and agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights, and also agrees, at the reasonable request of either Co-Assignee, to testify in any legal proceedings, sign all lawful papers, make all lawful oaths, and generally do everything possible to aid said Co-Assignees, their respective successors and assigns, to obtain, maintain and enforce proper patent protection for said invention.

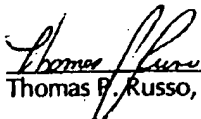
IN WITNESS WHEREOF, the Assignor and the Co-Assignees, by their respective duly authorized officers, have caused this Worldwide Patent Assignment to be executed.

Dated as of October 27, 2005.

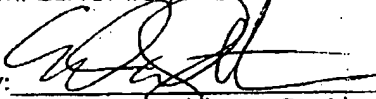
ASSIGNOR:

[SEAL]

ATTEST:


Thomas F. Russo, Secretary

MMI GENOMICS, INC.

By: 
Edwin C. Quattlebaum, President

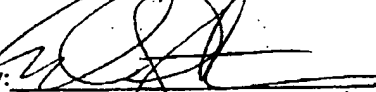
CO-ASSIGNEES:

[SEAL]

ATTEST:

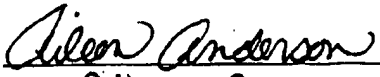

William E. Carlson, Secretary

METAMORPHIX, INC.

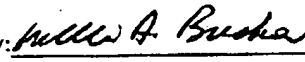
By: 
Edwin C. Quattlebaum, President

[SEAL]

ATTEST:


Name: Aileen Anderson

CARGILL, INCORPORATED

By: 
Name: William A. Buckner
Title: LOPP, V.P.